SUPER WOOFER

SW-900

SERVICE MANUAL

KENWOOD

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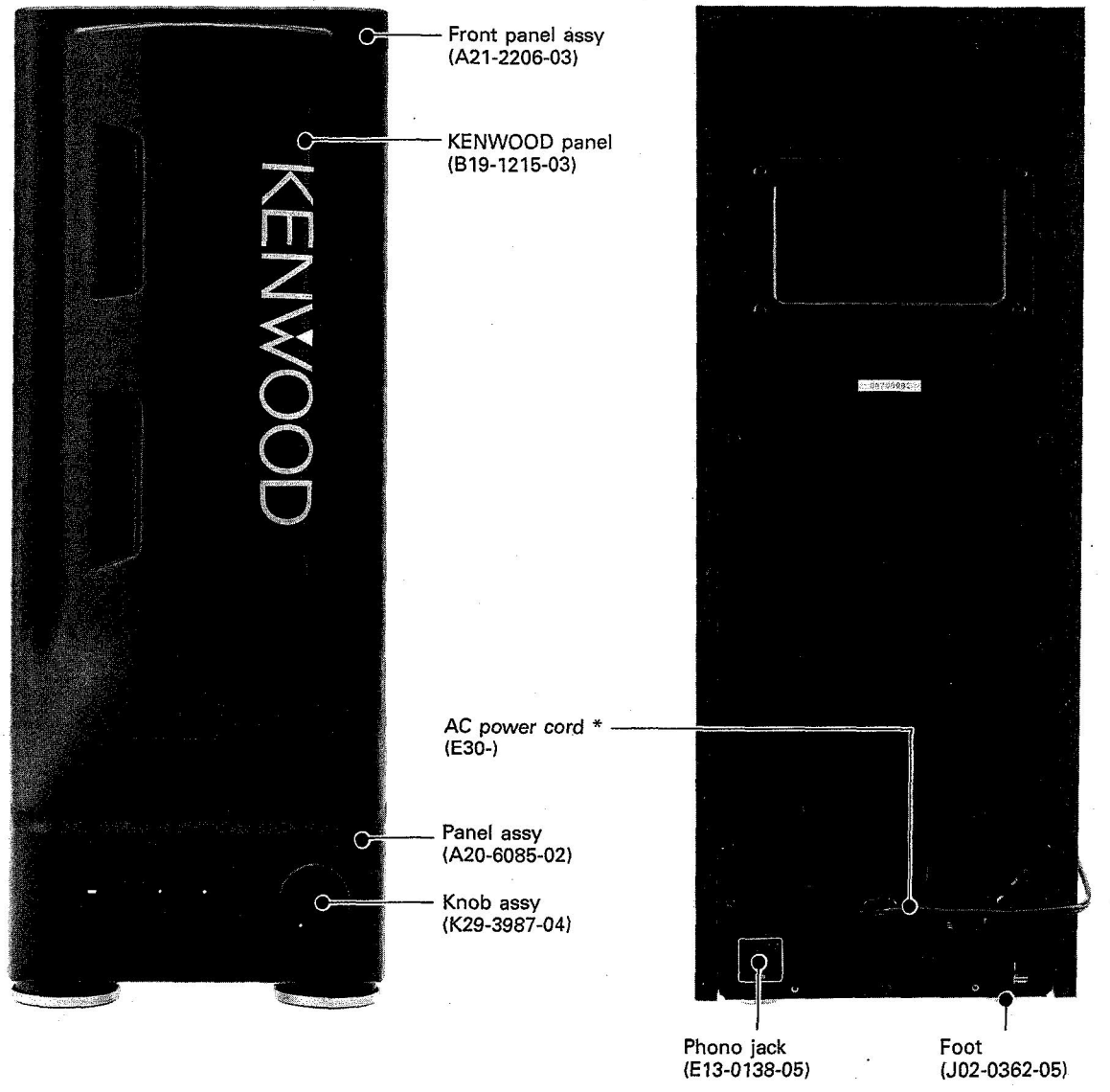
B51-4228-00 (O) 1954

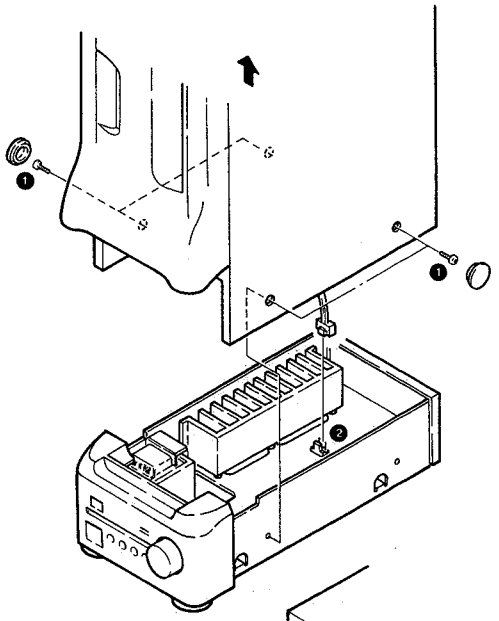


* Refer to parts list on page 13.

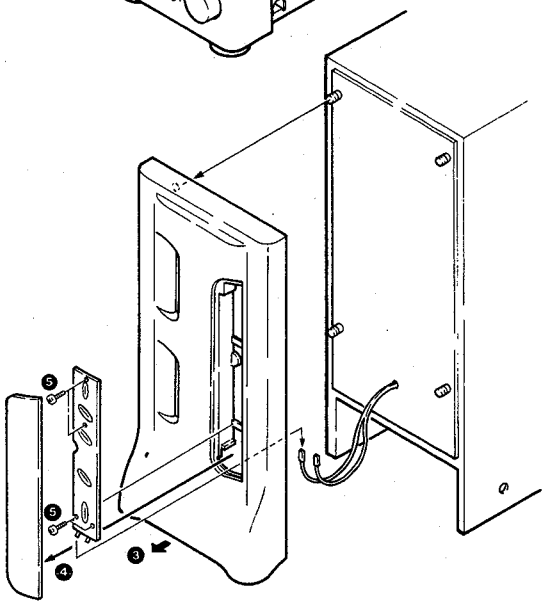
SW-900

DISASSEMBLY FOR REPAIR

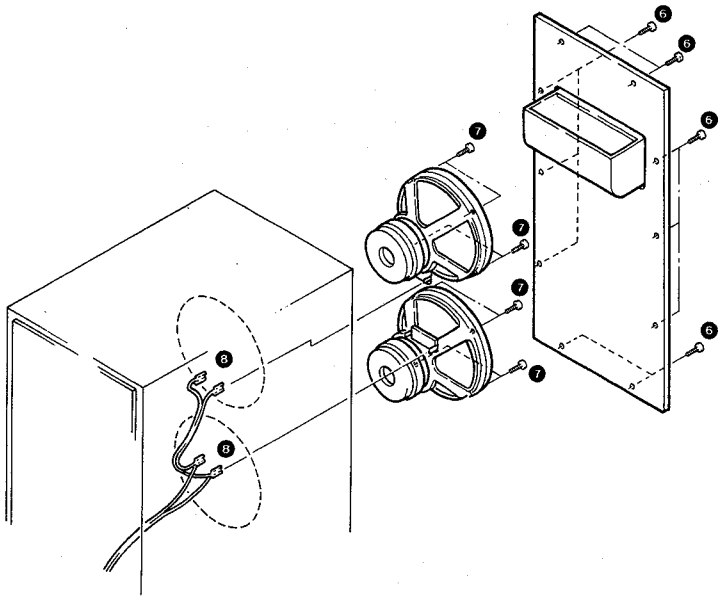
1. Remove four screw caps and screws (❶).
2. Remove connector (❷).



3. Remove front panel ass'y frontwards (❸).
4. Remove KENWOOD panel with pushing it backwards (❹).
5. Remove five screws (❺).

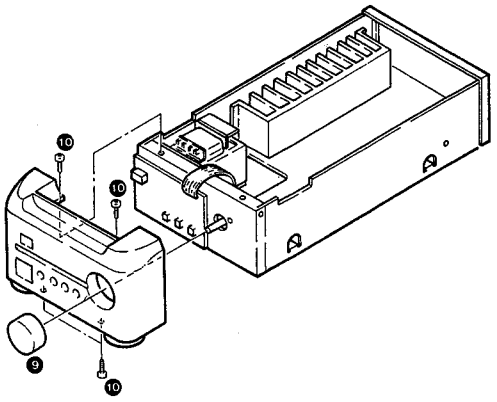


6. Remove ten screws fixing to back board (❻).
7. Remove eight screws fixing loudspeaker (❼).
8. Pull out speaker cables (❽).



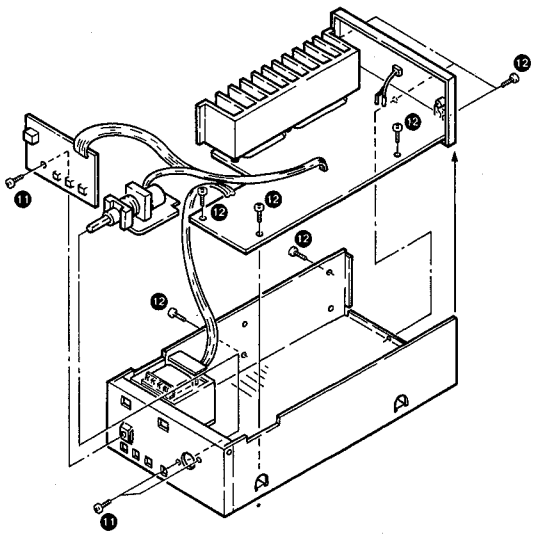
DISASSEMBLY FOR REPAIR

9. Pull out knob (⑨).
10. Remove four screws fixing panel ass'y (⑩).

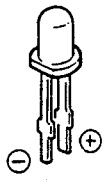


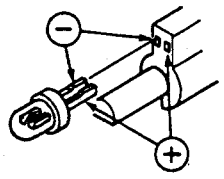
11. Remove three screw fixing switch and volume pc boards (⑪).
12. Remove eight screws fixing pcb,heat sink and rear panel (⑫).

Note : When repairing main PC board, not need step (⑪).



- **REPLACING VOL-LED (B30-1284-08)**
  If VOL-LED is defective, replace it with new refering the following figure.





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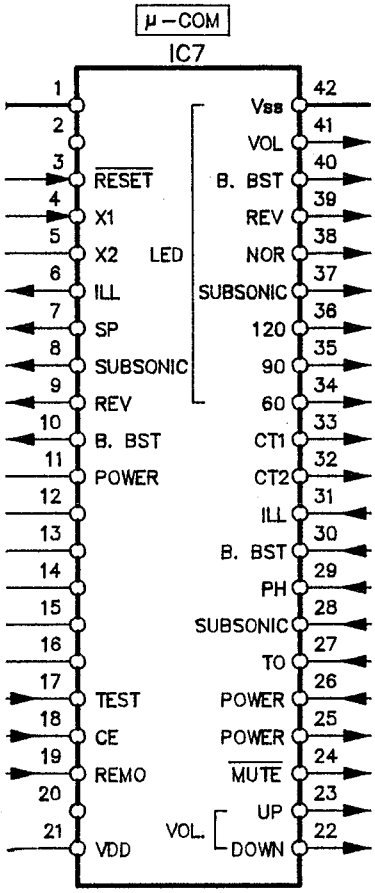
CIRCUIT DESCRIPTION

1. Microprocessor : μPD75004CU-076 (IC7)

1-1. Pin connection diagram



BACKUP OPERATION

Microprocessor in this unit works in backup mode when power is off or power cord is pulled out from power supply. RAM remembers mode before power is off. And if power is supplied microprocessor work last memory mode.There is detection pin (CE port) 18 power supply in microprocessor, if it has L level, unit is OFF mode.

Memorable data

POWER : (ON/OFF)
TURNOVER : (60Hz/90Hz/120Hz)
PHASE : (NORMAL/REVERSE)
SSB : (ON/OFF)
BASS BOOST : (ON/OFF)
ILLUMINATION : (ON/OFF)

HOW TO SET TO BE INITIAL

Insert ac plug to wall outlet with pressing ILLUMINATION key, or discharge capacitor C62.

RESET CONDITION

POWER : OFF
MUTING : ON
ILLUMINATION : ON
PHASE : NORMAL
BASS BOOST : OFF
SUBSONIC SUPER BASS : OFF
TURNOVER : 90Hz
VOLUME : STOP

CIRCUIT DESCRIPTION

1-2. Pin functions

Pin No.	Pin Name	I/O	Function Name	Function
1	XT1	I	No use	GND
2	XT2	O	No use	Open
3	RESET	I	RESET	Reset input (H:normal/L:reset)
4	X1	I	-	Oscillation (4.19MHz)
5	X2	O	-	Oscillation (4.19MHz)
6	P33	O	PILL	Display control (H:on/L:off)
7	P32	O	PSP	Output of Speaker-relay control (H:on/L:off)
8	P31	O	PSSB	Output of SSB-control (H:on/L:off)
9	P30	O	PREV	Output of Phase-control (H:rev/L:nor)
10	P81	O	PBBST	Output of BASS BOOST control (H:on/L:off)
11	P80	O	LPOWER	Output of power LED control (H:on/L:off)
12-16	P03-P00/P13	I	No use	GND (pull down)
17	P12	I	No use	Input of TEST MODE (H:test mode/L:normal)
18	P11	I	CE	Detection of power supply (H:ac on/L:ac off)
19	P10	I	REMIN	Input of remote control
20	NC	-	No use	+5V
21	VDD	-	-	Power supply for microprocessor
22	P23	O	VOLD	Control for motor volume (H:up/L:off)
23	P22	O	VOLU	Control for motor volume (H;down/L:off)
24	P21	O	MUTE	Line mute (H:on/L:off)
25	P20	O	POWER	Power supply control (H:on/L:off)
26	P73	I	KPOWER	Input of POWER key
27	P72	I	KTOF	Input of TURNOVER key
28	P71	I	KSSB	Input of SSB key
29	P70	I	KPH	Input of PHASE key
30	P63	I	KBBST	Input of BASS BOOST key
31	P62	I	KILL	Input of ILLUMINATION key
32	P61	O	CT2	Output of 4066-control (switch turnover frequency)
33	P60	O	CT1	Output of 4066-control (switch turnover frequency)
34	P53	O	L60	Output of 60Hz-LED control (H:off/L:on)
35	P52	O	L90	Output of 90Hz-LED control (H:off/L:on)
36	P51	O	L120	Output of 120Hz-LED control (H:off/L:on)
37	P50	O	LSSB	Output of SSB-LED control (H:off/L:on)
38	P43	O	LNOR	Output of NORMAL-LED control (H:off/L:on)
39	P42	O	LREV	Output of REVERSE-LED control (H:off/L:on)
40	P41	O	LBBST	Output of BASS BOOST-LED control (H:off/L:on)
41	P40	O	LVOL	Output of VOLUME-LED control (H:off/L:on)
42	Vss	-	-	GND

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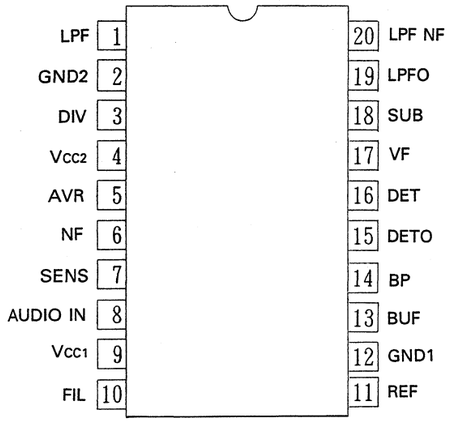
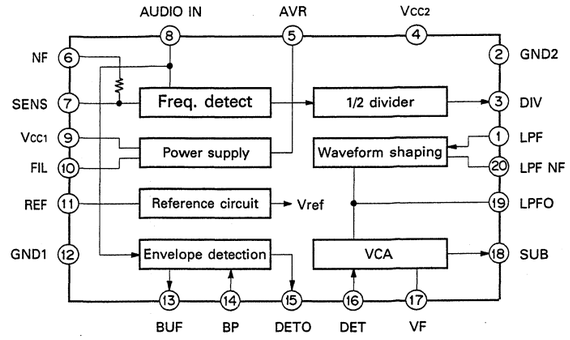
CIRCUIT DESCRIPTION

2. Bass Boost Circuit : M51134P/FP (IC2)

2-1. Pin connection diagram



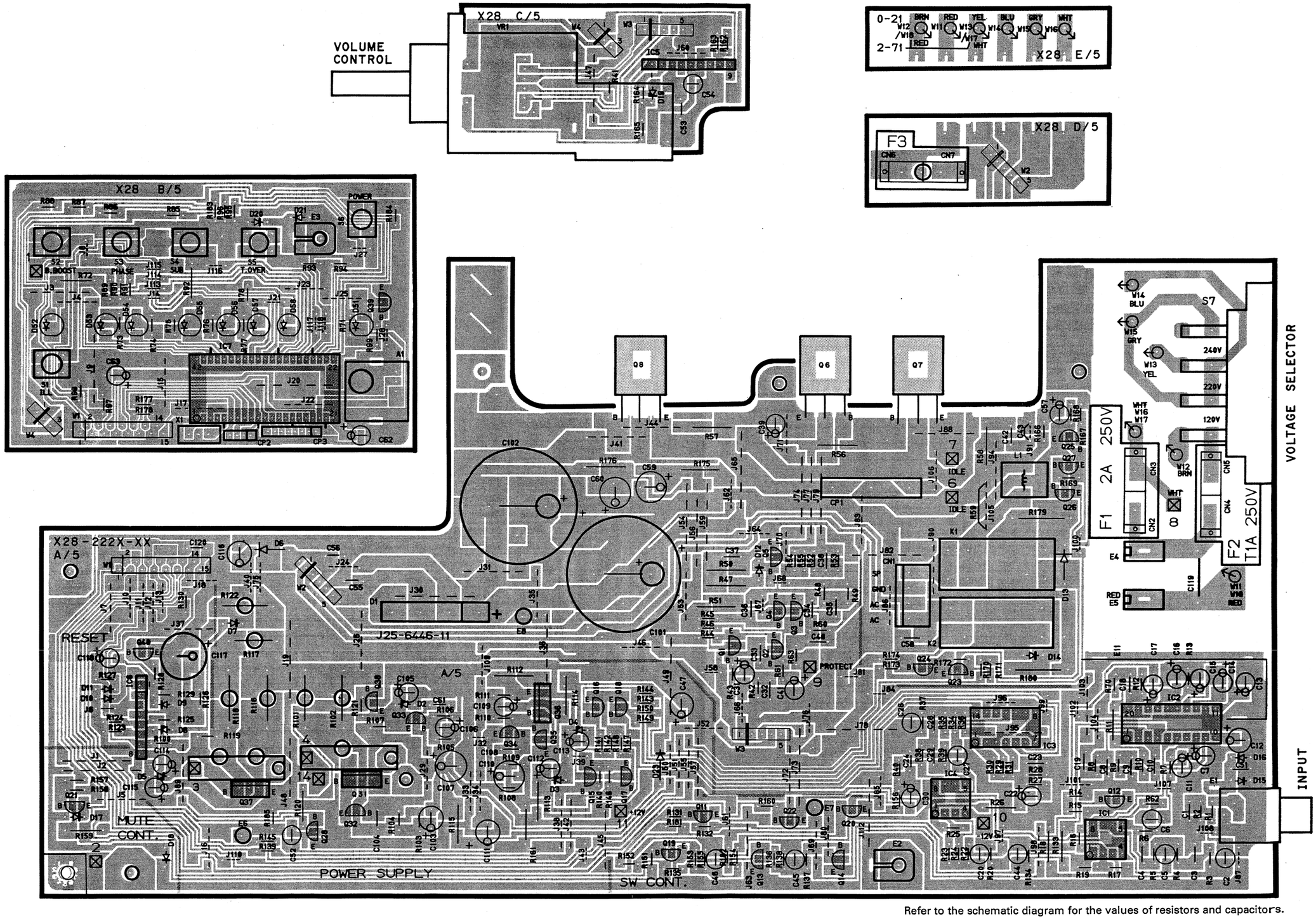
2-2. Block diagram



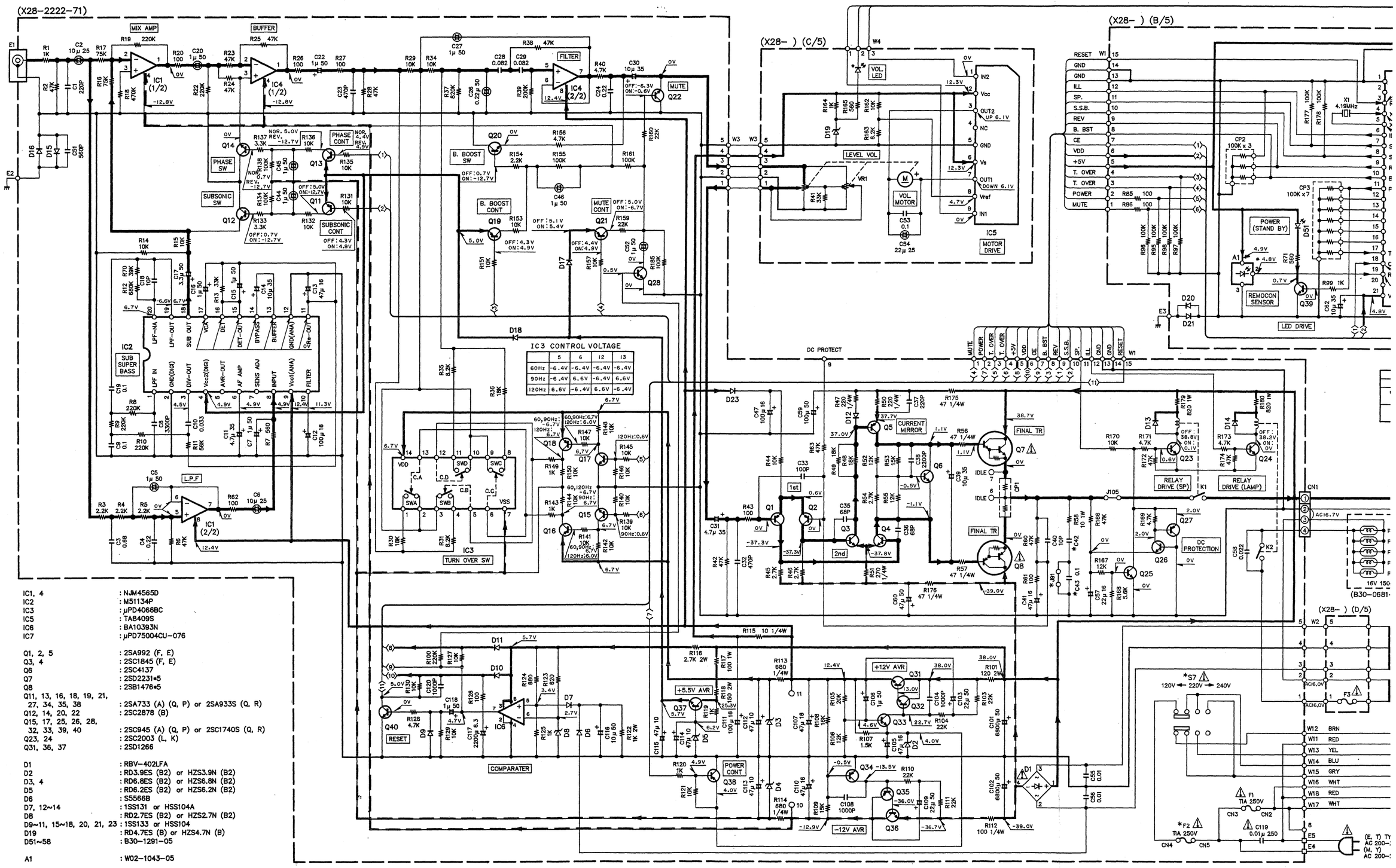
2-3. Pin functions

Port No.	Name	Description
1	LPF	Non-invert of operation amplifier for LPF
2	GND2	GND for digital circuit
3	DIV	Digital output (1/2 freq.)
4	Vcc2	Power supply (4.5~5.5V)
5	AVR	In case of single power supply,power supply for digital circuit (+5V)
6	NF	Negative feedback for AUDIO amp
7	SENS	Input sensitivity
8	IN	Audio input terminal
9	Vcc1	Power supply for analog circuit (7~15V)
10	FIL	Ripple filter for power supply
11	REF	Output terminal of reference voltage
12	GND1	GND for analog circuit
13	BUF	Output for buffer
14	BP	Input terminal of DET amp (BYPASS)
15	DETO	Output of detect
16	DET	Control terminal of VCA
17	VF	Control terminal of distortion
18	SUB	Analog output (1/2 freq.)
19	LPFO	Output of LPF
20	LPFNF	Negative feedback terminal of LPF

PC BOARD (COMPONENT SIDE VIEW)



Refer to the schematic diagram for the values of resistors and capacitors.



IC1, 4 : NJM4565D
IC2 : M51134P
IC3 : μPD4066BC
IC5 : TA8409S
IC6 : BA10393N
IC7 : μPD75004CU-076

Q1, 2, 5 : 2SA992 (F, E)
Q3, 4 : 2SC1845 (F, E)
Q6 : 2SC4137
Q7 : 2SD2231*5
Q8 : 2SB1476*5
Q11, 13, 16, 18, 19, 21, 27, 34, 35, 38 : 2SA733 (A) (Q, P) or 2SA933S (Q, R)
Q12, 14, 20, 22 : 2SC2878 (B)
Q15, 17, 25, 26, 28, 32, 33, 39, 40 : 2SC945 (A) (Q, P) or 2SC1740S (Q, R)
Q23, 24 : 2SC2003 (L, K)
Q31, 36, 37 : 2SD1266

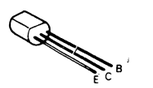
D1 : RBV-402LFA
D2 : RD3.9ES (B2) or HZS3.9N (B2)
D3, 4 : RD6.8ES (B2) or HZS6.8N (B2)
D5 : RD6.2ES (B2) or HZS6.2N (B2)
D6 : S5566B
D7, 12~14 : 1SS131 or HSS104A
D8 : RD2.7ES (B2) or HZS2.7N (B2)
D9~11, 15~18, 20, 21, 23 : 1SS133 or HSS104
D19 : RD4.7ES (B) or HZS4.7N (B)
D51~58 : B30-1291-05

A1 : W02-1043-05

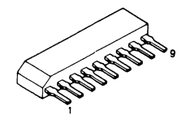
DESTINATION		UNIT NAME	C42	C43	F2	J91	S7
COUNTRY	ABB.						
GENERAL MARKET PX	M Y	X28-2220-21	0.047	NO	YES	YES	YES
ENGLAND EUROPE	T E	X28-2222-71	0.1	0.1μ	NO	NO	NO

SIGNAL LINE
GND LINE
+B LINE
−B LINE

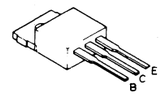
2SA733(A) 2SC2003
2SA992 2SC2878
2SC1845 2SC945(A)



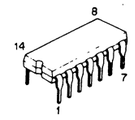
AN6913



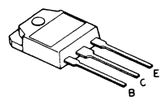
2SD1266



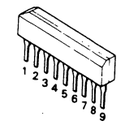
UPD4066BC



2SB1476*5
2SD2231*5

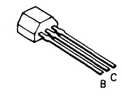


TA8409S

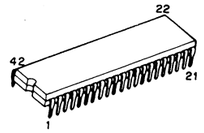


2SC4137

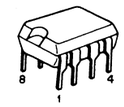
2SA933S
2SC1740S



UPD75004CU-067



NJM4565D



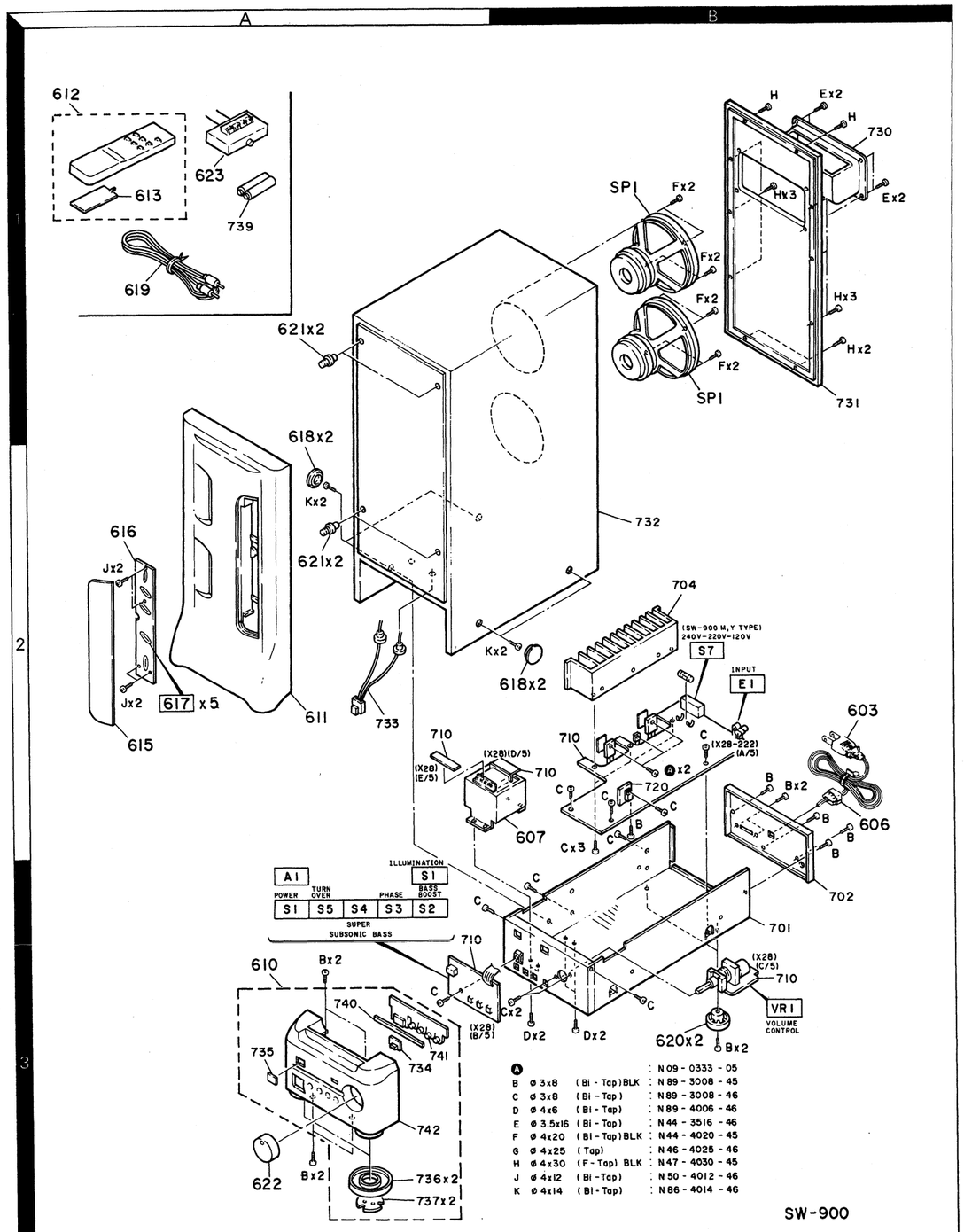
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Y16-4228-00

SW-900
KENWOOD

EXPLODED VIEW (UNIT)



A	ø 3x8	(Bi-Tap)BLK	: N09-0333-05	
B	ø 3x8	(Bi-Tap)	: N89-3008-45	
C	ø 3x8	(Bi-Tap)	: N89-3008-46	
D	ø 4x6	(Bi-Tap)	: N89-4006-46	
E	ø 3.5x16	(Bi-Tap)	: N44-3516-46	
F	ø 4x20	(Bi-Tap)BLK	: N44-4020-45	
G	ø 4x25	(Tap)	: N46-4025-46	
H	ø 4x30	(F-Tap) BLK	: N47-4030-45	
J	ø 4x12	(Bi-Tap)	: N50-4012-46	
K	ø 4x14	(Bi-Tap)	: N86-4014-46	

SW-900

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht gellefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
SP1	1B	*	T10-0481-05	W00FER		
623	1A	*	W02-0175-05	ADAPTOR		
				AMP UNIT (X28-2220-21)		
D51 -58			B30-1291-05	LED		
C1			CC45FSL1H221J	CERAMIC 220PF J		
C2			C90-1332-05	NP-ELEC 10UF 25WV		
C3			CF92FV1H684J	MF 0.68UF J		
C4			CF92FV1H224J	MF 0.22UF J		
C5			C90-1349-05	NP-ELEC 1UF 50WV		
C6			C90-1332-05	NP-ELEC 10UF 25WV		
C7			CE04KW1H010M	ELECTRO 1.0UF 25WV		
C8			CF92FV1H332J	MF 3300PF J		
C9			CF92FV1H104J	MF 0.10UF J		
C10			CF92FV1H333J	MF 0.033UF J		
C11			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C12			CE04KW1C100M	ELECTRO 10UF 16WV		
C13			CE04KW1C470M	ELECTRO 47UF 16WV		
C14			CE04KW1V100M	ELECTRO 10UF 35WV		
C15 ,16			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C17			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C18			CC45FSL1H100D	CERAMIC 10PF D		
C19			CF92FV1H104J	MF 0.10UF J		
C20			C90-1349-05	NP-ELEC 1UF 50WV		
C22			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C23			CK45FB1H471K	CERAMIC 470PF K		
C24			CF92FV1H224J	MF 0.22UF J		
C26			C90-1456-05	NP-ELEC 0.22UF 50WV		
C27 ,29			C90-1349-05	NP-ELEC 1UF 50WV		
C28			CF92FV1H823J	MF 0.082UF J		
C30			CE04KW1V100M	ELECTRO 10UF 35WV		
C31			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C32			CC45FSL1H101J	CERAMIC 100PF J		
C35 ,36			CC45FSL1H680J	CERAMIC 68PF J		
C37			CC45FSL1H221J	CERAMIC 220PF J		
C38			CK45FB1H222K	CERAMIC 2200PF K		
C39			CE04KW1V100M	ELECTRO 10UF 35WV		
C40			CC45FSL1H100D	CERAMIC 10PF D		
C41			CE04KW1C470M	ELECTRO 47UF 16WV		
C42 ,43			CF92FV1H473J	MF 0.047UF J	MY	
C44 -46			CF92FV1H104J	MF 0.10UF J	XTE	
C47			C90-1349-05	NP-ELEC 1UF 50WV		
C51			CE04KW1C101M	ELECTRO 100UF 16WV		
			CK45FB1H561K	CERAMIC 560PF K		
C52			C90-1349-05	NP-ELEC 1UF 50WV		
C53			CF92FV1H104J	MF 0.10UF J		
C54			C90-1353-05	NP-ELEC 22UF 25WV		
C55 ,56			CK45FF1H103Z	CERAMIC 0.010UF Z		
C57			CE04KW1C220M	ELECTRO 22UF 16WV		
C58			CK45FF1H223Z	CERAMIC 0.022UF Z		
C59			CE04KW1H101M	ELECTRO 100UF 50WV		
C60			CE04KW1H470M	ELECTRO 47UF 50WV		
C62			CE04KW1V100M	ELECTRO 10UF 35WV		

E: Scandinavia & Europe K: USA P: Canada W: Europe
Y: PX(Far East, Hawaii) T: England M: Other Areas
Y: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht gellefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
				SW-900		
⚠ 603	2B		E30-0459-05	AC POWER CORD	ME	
⚠ 603	2B		E30-1341-05	AC POWER CORD	X	
⚠ 603	2B		E30-1416-05	AC POWER CORD	T	
⚠ 603	2B		E30-2591-05	AC POWER CORD	Y	
⚠ 606	2B		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
⚠ 607	2B	*	L07-0145-05	POWER TRANSFORMER	MY	
⚠ 607	2B	*	L07-0146-05	POWER TRANSFORMER	XT	
⚠ 607	2B	*	L07-0147-05	POWER TRANSFORMER	E	
A			N09-0333-05	TAPPING SCREW (3X12)		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3008-46	BINDING HEAD TAPTITE SCREW		
D			N89-4006-46	BINDING HEAD TAPTITE SCREW		
⚠ Q6		*	2SC4137(V,W)	TRANSISTOR		
⚠ Q7		*	2SD2231*5	TRANSISTOR		
⚠ Q8		*	2SB1476*5	TRANSISTOR		
				SW-900 SPEAKER		
610	3A	*	A20-6085-02	PANEL ASSY		
611	2A	*	A21-2206-03	FRONTPANEL ASSY		
612	1A	*	A70-0384-05	REMOCON ASSY (RC-900)		
613	1A		A09-0076-08	BATTERY CASE		
615	2A	*	B19-1215-03	KENWOOD PANEL		
616	2A	*	B30-0681-04	LAMP ASSY		
617	2A	*	B30-0687-05	LAMP		
618	1A	*	B09-0113-05	CAP		
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-13	WARRANTY CARD	X	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-		*	B58-0920-04	CAUTION CARD	Y	
-		*	B61-0335-00	INSTRUCTION CARD	M	
-		*	B61-0336-00	INSTRUCTION CARD		
619	1A	*	E30-5066-05	AUDIO CORD	M	
-		*	E03-0254-05	AC ADAPTOR		
-		*	H01-6863-04	CARTON BOX		
-		*	H10-4136-02	POLYSTYRENE FUAMED FIXTURE		
-		*	H10-4137-02	POLYSTYRENE FUAMED FIXTURE		
-		*	H21-1006-04	PROTECTION SHEET		
620	3B		J02-0362-05	FOOT		
621	1A	*	J19-1060-05	GRILLE HOLDER		
622	3A	*	K29-3987-04	KNOB ASSY		
E			N44-3516-45	BIND HEAD TAPPING SCREW		
F			N44-4020-45	BIND HEAD TAPPING SCREW		
G			N46-4025-45	BIND HEAD TAPPING SCREW		
H		*	N47-4030-45	BIND HEAD TAPPING SCREW		
I		*	N50-3508-46	BIND HEAD TAPPING SCREW		
J		*	N86-4014-46	BIND HEAD TAPPONG SCREW		

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			SW-900			
⚠ 603	2B		E30-0459-05	AC POWER CORD	ME	
⚠ 603	2B		E30-1341-05	AC POWER CORD	X	
⚠ 603	2B		E30-1416-05	AC POWER CORD	T	
⚠ 603	2B		E30-2591-05	AC POWER CORD	Y	
⚠ 606	2B		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
⚠ 607	2B	*	L07-0145-05	POWER TRANSFORMER	MY	
⚠ 607	2B	*	L07-0146-05	POWER TRANSFORMER	XT	
⚠ 607	2B	*	L07-0147-05	POWER TRANSFORMER	E	
A			N09-0333-05	TAPPING SCREW (3X12)		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3008-46	BINDING HEAD TAPTITE SCREW		
D			N89-4006-46	BINDING HEAD TAPTITE SCREW		
Q6			2SC4137(V,W)	TRANSISTOR		
⚠ Q7		*	2SD2231*5	TRANSISTOR		
⚠ Q8		*	2SB1476*5	TRANSISTOR		
			SW-900 SPEAKER			
610	3A	*	A20-6085-02	PANEL ASSY		
611	2A	*	A21-2206-03	FRONTPANEL ASSY		
612	1A	*	A70-0384-05	REMOCON ASSY (RC-900)		
613	1A		A09-0076-08	BATTERY CASE		
615	2A	*	B19-1215-03	KENWOOD PANEL		
616	2A	*	B30-0681-04	LAMP ASSY		
617	2A	*	B30-0687-05	LAMP		
618	1A		B09-0113-05	CAP		
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-13	WARRANTY CARD	X	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-		*	B58-0920-04	CAUTION CARD	Y	
-		*	B61-0335-00	INSTRUCTION CARD		
-		*	B61-0336-00	INSTRUCTION CARD	M	
619	1A		E30-5066-05	AUDIO CORD		
-		*	E03-0254-05	AC ADAPTOR	M	
-		*	H01-6863-04	CARTON BOX		
-		*	H10-4136-02	POLYSTYRENE FUAMED FIXTURE		
-		*	H10-4137-02	POLYSTYRENE FUAMED FIXTURE		
-			H21-1006-04	PROTECTION SHEET		
620	3B		J02-0362-05	FOOT		
621	1A	*	J19-1060-05	GRILLE HOLDER		
622	3A	*	K29-3987-04	KNOB ASSY		
E			N44-3516-45	BIND HEAD TAPPING SCREW		
F			N44-4020-45	BIND HEAD TAPPING SCREW		
G			N46-4025-46	BIND HEAD TAPPING SCREW		
H		*	N47-4030-45	BIND HEAD TAPPING SCREW		
I		*	N50-3508-46	BIND HEAD TAPPING SCREW		
J		*	N86-4014-46	BIND HEAD TAPPONG SCREW		

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C101,102			C90-0366-05	ELECTRO 6800UF 50WV		
C103			CE04KW1H220M	ELECTRO 22UF 50WV		
C104			CK45FB1H102K	CERAMIC 1000PF K		
C105			CE04KW1C470M	ELECTRO 47UF 16WV		
C106			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C107			CE04KW1C470M	ELECTRO 47UF 16WV		
C108			CK45FB1H102K	CERAMIC 1000PF K		
C109			CE04KW1H220M	ELECTRO 22UF 50WV		
C110			CE04KW1C470M	ELECTRO 47UF 16WV		
C111			CE04KW1C101M	ELECTRO 100UF 16WV		
C112-115			CE04KW1A470M	ELECTRO 47UF 10WV		
C116			CE04KW1H100M	ELECTRO 10UF 50WV		
C117			CE04KW0J222M	ELECTRO 2200UF 6.3WV		
C118			CE04KW1H010M	ELECTRO 1.0UF 50WV		
⚠ C119			C91-0971-05	FILM 0.01UF 250WV		
C120			CK45FB1H102K	CERAMIC 1000PF K		
E1	2B		E13-0138-05	PHONO JACK (1P)		
⚠ F1			F06-1022-05	FUSE (SEMKO) (250V T1A)	XTE	
⚠ F1 ,2			F06-1022-05	FUSE (SEMKO) (250V T1A)	MY	
⚠ F3			F06-2021-05	FUSE (SEMKO) (250V T2A)		
CN2 -7			J13-0075-05	FUSE CLIP		
X1			L78-0209-05	RESONATOR (4.194MHZ)		
B			N35-3008-46	BINDING HEAD MACHINE SCREW		
F			N89-3008-45	BINDING HEAD TAPTITE SCREW		
CP1			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
CP2			R90-0850-05	MULTIPLE RESISTOR		
CP3			R90-0803-05	MULTI-COMP 100KX7 J 1/4W		
R47			RD14NB2E221J	RD 220 J 1/4W		
R50			RD14NB2E221J	RD 220 J 1/4W		
R51			RD14NB2E271J	RD 270 J 1/4W		
R56 ,57			RD14NB2E470J	RD 47 J 1/4W		
R58			RS14KB3A100J	FL-PROOF RS 10 J 1W		
R101			RS14KB3D121J	FL-PROOF RS 120 J 2W		
R112			RD14NB2E101J	RD 100 J 1/4W		
R113,114			RD14NB2E681J	RD 680 J 1/4W		
R115			RD14NB2E100J	RD 10 J 1/4W		
R116			RS14KB3D272J	FL-PROOF RS 2.7K J 2W		
R117			RS14KB3A101J	FL-PROOF RS 100 J 1W		
R118			RS14KB3D151J	FL-PROOF RS 150 J 2W		
R122			RS14KB3D102J	FL-PROOF RS 1.0K J 2W		
R175,176			RD14NB2E470J	RD 47 J 1/4W		
R179,180			RS14KB3A821J	FL-PROOF RS 820 J 1W		
VR1	3B		R29-5035-05	POTENTIOMETER(100K X2)		
K1			S51-2092-05	MAGNETIC RELAY		
⚠ K2			S51-1053-05	MAGNETIC RELAY		
S1 -6	3A		S40-1064-05	PUSH SWITCH		
⚠ S7	2B		S31-2322-05	SLIDE SWITCH	MY	
D1			RBV-402LFA	DIODE		
D2			HZS3.9N(B2)	ZENER DIODE		
D2			RD3.9ES(B2)	ZENER DIODE		
D3 ,4			HZS6.8N(B2)	ZENER DIODE		

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SP1	1B	*	T10-0481-05	WOOFER		
623	1A	*	W02-0175-05	ADAPTOR		
			AMP UNIT (X28-2220-21)			
D51 -58			B30-1291-05	LED		
C1			CC45FSL1H221J	CERAMIC 220PF J		
C2			C90-1332-05	NP-ELEC 10UF 25WV		
C3			CF92FV1H684J	MF 0.68UF J		
C4			CF92FV1H224J	MF 0.22UF J		
C5			C90-1349-05	NP-ELEC 1UF 50WV		
C6			C90-1332-05	NP-ELEC 10UF 25WV		
C7			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C8			CF92FV1H332J	MF 3300PF J		
C9			CF92FV1H104J	MF 0.10UF J		
C10			CF92FV1H333J	MF 0.033UF J		
C11			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C12			CE04KW1C101M	ELECTRO 100UF 16WV		
C13			CE04KW1C470M	ELECTRO 47UF 16WV		
C14			CE04KW1V100M	ELECTRO 10UF 35WV		
C15 ,16			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C17			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C18			CC45FSL1H100D	CERAMIC 10PF D		
C19			CF92FV1H104J	MF 0.10UF J		
C20			C90-1349-05	NP-ELEC 1UF 50WV		
C22			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C23			CK45FB1H471K	CERAMIC 470PF K		
C24			CF92FV1H224J	MF 0.22UF J		
C26			C90-1456-05	NP-ELEC 0.22UF 50WV		
C27			C90-1349-05	NP-ELEC 1UF 50WV		
C28 ,29			CF92FV1H823J	MF 0.082UF J		
C30			CE04KW1V100M	ELECTRO 10UF 35WV		
C31			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C32			CK45FB1H471K	CERAMIC 470PF K		
C33			CC45FSL1H101J	CERAMIC 100PF J		
C35 ,36			CC45FSL1H680J	CERAMIC 68PF J		
C37			CC45FSL1H221J	CERAMIC 220PF J		
C38			CK45FB1H222K	CERAMIC 2200PF K		
C39			CE04KW1V100M	ELECTRO 10UF 35WV		
C40			CC45FSL1H100D	CERAMIC 10PF D		
C41			CE04KW1C470M	ELECTRO 47UF 16WV		
C42			CF92FV1H473J	MF 0.047UF J	MY	
C42 ,43			CF92FV1H104J	MF 0.10UF J	XTE	
C44 -46			C90-1349-05	NP-ELEC 1UF 50WV		
C47			CE04KW1C101M	ELECTRO 100UF 16WV		
C51			CK45FB1H561K	CERAMIC 560PF K		
C52			C90-1349-05	NP-ELEC 1UF 50WV		
C53			CF92FV1H104J	MF 0.10UF J		
C54			C90-1353-05	NP-ELEC 22UF 25WV		
C55 ,56			CK45FF1H103Z	CERAMIC 0.010UF Z		
C57			CE04KW1C220M	ELECTRO 22UF 16WV		
C58			CK45FF1H223Z	CERAMIC 0.022UF Z		
C59			CE04KW1H101M	ELECTRO 100UF 50WV		
C60			CE04KW1H470M	ELECTRO 47UF 50WV		
C62			CE04KW1V100M	ELECTRO 10UF 35WV		

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D3 ,4			RD6.8ES(B2)	ZENER DIODE		
D5			HZS6.2N(B2)	ZENER DIODE		
D5			RD6.2ES(B2)	ZENER DIODE		
D6			S5566B	DIODE		
D7			HSS104A	DIODE		
D7			1SS131	DIODE		
D8			HZS2.7N(B2)	ZENER DIODE		
D8			RD2.7ES(B2)	ZENER DIODE		
D9 -11			HSS104	DIODE		
D9 -11			1SS133	DIODE		
D12 -14			HSS104A	DIODE		
D12 -14			1SS131	DIODE		
D15 -18			HSS104	DIODE		
D15 -18			1SS133	DIODE		
D19			HZS4.7N(B)	ZENER DIODE		
D19			RD4.7ES(B)	ZENER DIODE		
D20 ,21			HSS104	DIODE		
D20 ,21			1SS133	DIODE		
D23			HSS104	DIODE		
D23			1SS133	DIODE		
IC1			NJM4565D	IC(OP AMP X2)		
IC2		*	M51134P	IC		
IC3			UPD4066BC	IC(BILATERAL SWITCH X4)		
IC4			NJM4565D	IC(OP AMP X2)		
IC5			TA8409S	IC(MOTOR CONTROL)		
IC6			AN6913	IC(COMPARATOR X2)		
IC7		*	UPD75004CU-067	IC(MICROPROCESSOR)		
Q1 ,2			2SA992(F,E)	TRANSISTOR		
Q3 ,4			2SC1845(F,E)	TRANSISTOR		
Q5			2SA992(F,E)	TRANSISTOR		
Q11			2SA733(A)(Q,P)	TRANSISTOR		
Q11			2SA933S(Q,R)	TRANSISTOR		
Q12			2SC2878(B)	TRANSISTOR		
Q13			2SA733(A)(Q,P)	TRANSISTOR		
Q13			2SA933S(Q,R)	TRANSISTOR		
Q14			2SC2878(B)	TRANSISTOR		
Q15			2SC1740S(Q,R)	TRANSISTOR		
Q15			2SC945(A)(Q,P)	TRANSISTOR		
Q16			2SA733(A)(Q,P)	TRANSISTOR		
Q16			2SA933S(Q,R)	TRANSISTOR		
Q17			2SC1740S(Q,R)	TRANSISTOR		
Q17			2SC945(A)(Q,P)	TRANSISTOR		
Q18 ,19			2SA733(A)(Q,P)	TRANSISTOR		
Q18 ,19			2SA933S(Q,R)	TRANSISTOR		
Q20			2SC2878(B)	TRANSISTOR		
Q21			2SA733(A)(Q,P)	TRANSISTOR		
Q21			2SA933S(Q,R)	TRANSISTOR		
Q22			2SC2878(B)	TRANSISTOR		
Q23 ,24			2SC2003(L,K)	TRANSISTOR		
Q25 ,26			2SC1740S(Q,R)	TRANSISTOR		
Q25 ,26			2SC945(A)(Q,P)	TRANSISTOR		
Q27			2SA733(A)(Q,P)	TRANSISTOR		
Q27			2SA933S(Q,R)	TRANSISTOR		
Q28			2SC1740S(Q,R)	TRANSISTOR		
Q28			2SC945(A)(Q,P)	TRANSISTOR		

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PARTS LIST SW-900

PARTS LIST

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Q31			2SD1266	TRANSISTOR		
Q32 ,33			2SC1740S(Q,R)	TRANSISTOR		
Q32 ,33			2SC945(A)(Q,P)	TRANSISTOR		
Q34 ,35			2SA733(A)(Q,P)	TRANSISTOR		
Q34 ,35			2SA933S(Q,R)	TRANSISTOR		
Q36 ,37			2SD1266	TRANSISTOR		
Q38			2SA733(A)(Q,P)	TRANSISTOR		
Q38			2SA933S(Q,R)	TRANSISTOR		
Q39 ,40			2SC1740S(Q,R)	TRANSISTOR		
Q39 ,40			2SC945(A)(Q,P)	TRANSISTOR		
A1	3A		W02-1043-05	OPTIC RECEIVING MODULE		

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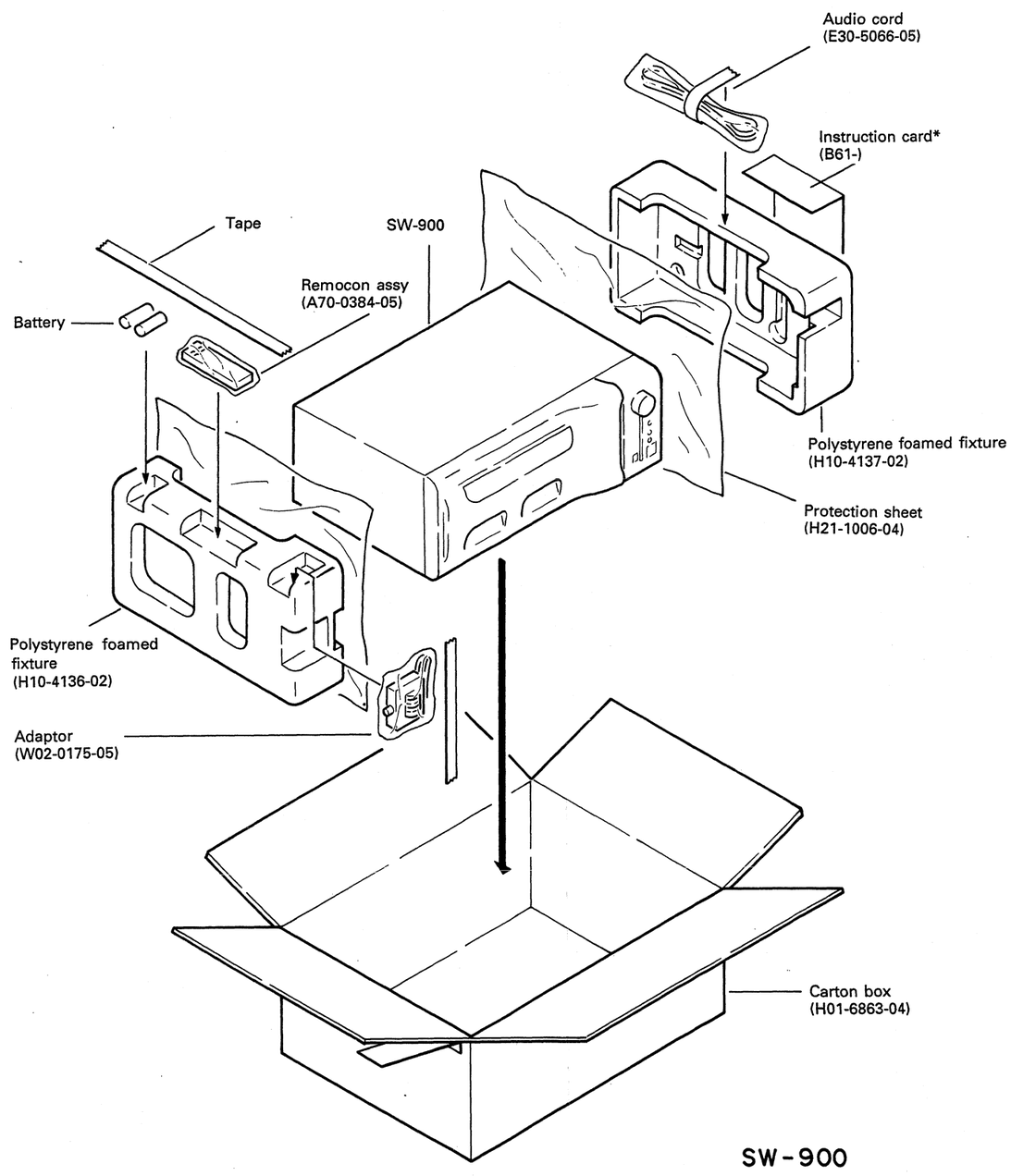
PACKING



SW-900

*** Refer to parts list on page 13.**

SW-900

SPECIFICATIONS

Type	Super Woofer system with built-in anti-magnetism (EIAJ) amplifier
[Amplifier]	
Practical Maximum Output	70 W (50 Hz ,EIAJ 10%, 6-ohm)
Frequency Response	20 Hz to 60 Hz, 90 Hz,120 Hz
Phase switching	NORMAL, REVERSE
Input Sensitivity & Input Impedance	
RCA-type pin-plug jack	100 mV / 70 W · 6 Ω, 5 k-ohm
Push-type terminals	1.0 V / 70 W · 6 Ω, 12 k-ohm
Supply Voltage	AC 110 - 120 V ~ AC 220 - 240 V
Rated Power Consumption	70 W
[Speaker]	
Enclosure	Front-load, bookshelf type
Speaker Units	160 mm cone type x 2
Nominal Impedance	6 - ohm
Dimensions	210 (W) x 559 (H) x 412 (D) mm
Net Weight	13.5kg
Supplied Accessories	Remote control x 1 Pin-plug cord (3m) x 1 Input adapter x 1 Battery x 2

*The "anti-magnetism (EIAJ)" term refers to a speaker system designed in compliance with the technical standards of EIAJ (Electronic Industries Association of Japan).

Note :
KENWOOD follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

Note :
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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